

**ABSTRACT OF THE DISCLOSURE**

A method and sensor or sensor subsystem permit improved evaporative leak detection in an automotive fuel system. The sensor or  
5 sensor subsystem computes temperature-compensated pressure values, thereby eliminating or reducing false positive or other adverse results triggered by temperature changes in the fuel tank. The temperature-compensated pressure measurement is then available for drawing an inference regarding the existence of a leak with reduced or eliminated false  
10 detection arising as a result of temperature fluctuations.

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